

FILEID**LIBMOVCS

J 10

(2) 46
(3) 75DECLARATIONS
LIB\$MOVCS - Execute MOVCS instruction

0000 1 .TITLE LIB\$MOVCS - Execute MOVCS instruction
0000 2 .IDENT /1-001/ ; File: LIBMOVCS.MAR Edit: SBL1001
0000 3
0000 4 ;
0000 5 ;*****
0000 6 ;
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0000 24 ;
0000 25 ;
0000 26 ;*****
0000 27 ;
0000 28 ;
0000 29 ;++
0000 30 ;FACILITY: General Utility Library
0000 31 ;
0000 32 ;ABSTRACT:
0000 33 ;
0000 34 ; This module contains LIB\$MOVCS, which makes the VAX MOVCS instruction
0000 35 ; available as a callable procedure.
0000 36 ;
0000 37 ;ENVIRONMENT: Runs at any access mode, AST Reentrant
0000 38 ;
0000 39 ;AUTHOR: Steven B. Lionel, CREATION DATE: 28-October-1981
0000 40 ;
0000 41 ;MODIFIED BY:
0000 42 ;
0000 43 ;1-001 - Original. SBL 28-October-1981
0000 44 ;--

0000 46 .SBTTL DECLARATIONS
0000 47
0000 48 LIBRARY MACRO CALLS:
0000 49
0000 50
0000 51
0000 52 EXTERNAL DECLARATIONS:
0000 53
0000 54 .DSABL GBL ; Force all external symbols to be declared
0000 55 NONE
0000 56
0000 57 MACROS:
0000 58
0000 59 NONE
0000 60
0000 61 EQUATED SYMBOLS:
0000 62
0000 63 NONE
0000 64
0000 65 OWN STORAGE:
0000 66
0000 67 NONE
0000 68
0000 69 PSECT DECLARATIONS:
0000 70
0000 71 .PSECT _LIB\$CODE PIC, USR, CON, REL, LCL, SHR, -
0000 72 EXE, RD, NOWRT, LONG
0000 73

0000 75 .SBTTL LIB\$MOVCS - Execute MOVCS instruction
0000 76 ++
0000 77 : FUNCTIONAL DESCRIPTION:
0000 78 :
0000 79 : LIB\$MOVCS makes the VAX MOVCS instruction available as
0000 80 : a callable procedure.
0000 81 :
0000 82 : The source is moved to the destination. If the destination is
0000 83 : longer than the source, the highest address bytes of the
0000 84 : destination are replaced by the fill argument. If the
0000 85 : destination is shorter than the source, the highest
0000 86 : addressed bytes of the source are not moved. The operation is
0000 87 : such that overlap of the source and destination does not
0000 88 : affect the result.
0000 89 :
0000 90 : For more information, see the VAX-11 Architecture Handbook.
0000 91 :
0000 92 : CALLING SEQUENCE:
0000 93 :
0000 94 : status.wlc.v = LIB\$MOVCS (src_len.rwu.r, source.rz.r, fill.rb.r,
0000 95 : dst_len.rwu.r, dest.wz.r)
0000 96 :
0000 97 : FORMAL PARAMETERS:
0000 98 :
0000 99 : 00000004 0000 99 : src_len = 4 ; The length of source in bytes. Passed
0000 100 : by reference. The maximum length is 65535.
0000 101 : 00000008 0000 102 : source = 8 ; The source to move from. Passed by reference.
0000 103 : 0000000C 0000 104 : fill = 12 ; The fill character. Passed by reference.
0000 105 : 00000010 0000 106 : dst_len = 16 ; The length of dest in bytes. Passed by
0000 107 : reference. The maximum length is 65535.
0000 108 : 00000014 0000 109 : dest = 20 ; The destination to move to. Passed by
0000 110 : reference.
0000 111 :
0000 112 : 00000004 0000 113 : IMPLICIT INPUTS:
0000 114 :
0000 115 : 00000008 0000 116 : NONE
0000 117 : IMPLICIT OUTPUTS:
0000 118 :
0000 119 : 0000000C 0000 120 : NONE
0000 121 : COMPLETION STATUS:
0000 122 :
0000 123 : 00000010 0000 123 : SSS_NORMAL Procedure successfully completed.
0000 124 :
0000 125 : 00000014 0000 125 : SIDE EFFECTS:
0000 126 :
0000 127 : 00000008 0000 127 : NONE
0000 128 :
0000 129 : 0000000C 0000 129 :--
0000 130 :
003C 0000 131 : .ENTRY LIB\$MOVCS, ^M<R2,R3,R4,R5> ; Entry point

08 BC	04 BC	2C	0002	132		
			0002	133	MOVCS	@src_len(AP), -
			0007	134		@source(AP), -
			0007	135		@fill(AP), -
10 BC	0C BC		0007	136		@dst_len(AP), -
	14 BC		000B	137		@dest(AP)
			000D	138		
50 01	D0	000D	139		MOVL	#1, R0
	04	0010	140		RET	; SSS_NORMAL
		0011	141			; return to caller
		0011	142		.END	; End of module LIB\$MOVCS

```

DEST      = 00000014
DST_LEN   = 00000010
FILE      = 0000000C
LIB$MOVC5 = 00000000 RG 01
SOURCE    = 00000008
SRC_LEN   = 00000004

```

```

+-----+
! Psect synopsis !
+-----+

```

PSECT name	Allocation	PSECT No.	Attributes
. ABS	00000000	(0.) 00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
_LIB\$CODE	00000011	(17.) 01 (1.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

```

+-----+
! Performance indicators !
+-----+

```

Phase	Page faults	CPU Time	Elapsed Time
Initialization	34	00:00:00.04	00:00:00.58
Command processing	125	00:00:00.31	00:00:03.43
Pass 1	66	00:00:00.23	00:00:04.16
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	40	00:00:00.19	00:00:00.81
Symbol table output	3	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.02	00:00:00.39
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	272	00:00:00.80	00:00:09.38

The working set limit was 900 pages.

1379 bytes (3 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 6 non-local and 0 local symbols.

142 source lines were read in Pass 1, producing 10 object records in Pass 2.

0 pages of virtual memory were used to define 0 macros.

```

+-----+
! Macro library statistics !
+-----+

```

Macro library name	Macros defined
\$_255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$LIB\$MOVC5/OBJ=OBJ\$LIB\$MOVC5 MSRC\$LIB\$MOVC5/UPDATE=(ENH\$LIB\$MOVC5)

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VAX/VMS V4.0

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